

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: August 18, 1993

Date Received: August 9, 1993

Project: 7238, Metro Self Monitor, PO #M30310

Date Extracts Analyzed: August 12, 1993

**RESULTS FROM THE ANALYSIS
OF THE NITRIC ACID SOLUTION SAMPLES
FOR SPECIFIC GRAVITY**

<u>Sample #</u>	<u>Specific Gravity</u>
M30310	1.25
M30310A	1.26
<u>Quality Assurance</u>	
M30310A (Duplicate)	1.26

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: August 18, 1993

Date Received: August 9, 1993

Project: 7238, Metro Self Monitor, PO #M30310

Date Extracts Analyzed: August 13, 1993

**RESULTS FROM THE ANALYSIS
OF THE NITRIC ACID SOLUTION SAMPLES
FOR PERCENT ACID
Results Reported as Percent**

<u>Sample ID</u>	<u>Percent Acid</u>
M30310	6.2
M30310A	6.5
 <u>Quality Assurance</u>	
10% HN0 ₃	8.4

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS****Date of Report: August 18, 1993****Date Received: August 9, 1993****Project: 7238, Metro Self Monitor, PO #M30310****Date Extracts Analyzed: August 13, 1993****RESULTS FROM THE ANALYSIS
OF THE NITRIC ACID SOLUTION SAMPLES
FOR IRON****Results Reported as mg/L (ppm)**

<u>Sample ID</u>	<u>Iron</u>
M30310	5,100
M30310A	4,400
<u>Quality Assurance</u>	
Blank	<0.5
M30310A (Duplicate)	4,600
M30310A (Matrix Spike) % Recovery	ai
M30310A (Matrix Spike Duplicate) % Recovery	ai
Spike Blank % Recovery	140%
Spike Level	10

ai The amount spiked was insufficient to give meaningful recovery data.

8 BTB A
08/09/93
11:35a

FRIEDMAN & BRUYA, INC.
3008-B 16th Avenue West
Seattle, WA 98119

SAMPLE CHAIN OF CUSTODY

Send Report To:

Company Alaskan Copper Works Contact Gerald Thompson
Address 628 Hanford ST
City, State, Zip Seattle WA 98134
Phone # (206) 623-5800 X218 Date 8-2-93

SITE NO.

PROJECT NAME

PURCHASE ORDER #

7238.

metro self monitor

M 303/0

SAMPLERS (signature)

PROJECT LOCATION

REMARKS

3200 6th Ave

REMARKS

SAMPLE DISPOSAL INFORM.

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

SAMPLE #

Date/Time
Sampled

Type of Sample

of
Jars

Lab
Sample #

Analyses Requested

M 30310	8/2/83 10:10 ^{am}	Nitric Acid (60)	1	42720	SP. Gravity % of Acid
M 30310 A	8/9/83 10:11 ^{am}	Nitric Acid (5m)	1	42722	SP. Gravity % of Acid

Additional Analysis requested by G. Thompson: also run both for Fe Cr ICP MK 8.12.93	
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SIGNATURE

PRINT NAME

COMPANY

Date _____

Time

Relinquished by:

Gerald Thompson

Alastair Cooper

8-9-93

10:57a

Received by:

C. L. Ficks

For B ¹⁰ FWC

8-9-23

11:00 AM

Relinquished by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3008-B 16th Avenue West
Seattle, WA 98119
FAX: (206) 283-5044

DUPLICATE COPY

August 18, 1993

INVOICE #93ACU0818-1

Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project 7238, Metro Self Monitor, PO #M30310: Results of testing requested
by Gerry Thompson, Project Leader and submitted on August 9, 1993.

2 nitric acid solution samples analyzed for Specific Gravity @ \$25 per sample	\$ 50.00
2 nitric acid solution samples analyzed for Iron @ \$35 per sample	70.00
2 nitric acid solution samples analyzed for Percent Acid @ \$40 per sample	<u>80.00</u>
Amount Due	\$ 200.00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3008-B 16th Avenue West
Seattle, WA 98119
FAX: (206) 283-5044

August 18, 1993

Gerry Thompson, Project Leader
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on August 9, 1993 from Project 7238, Metro Self Monitor, PO #M30310.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,



Elaine K. Zamora
Chemist

EKZ/dp

Enclosures